MAG 25 0030 9/24/98

APPENDIX 5

Suggested Form for Notice of Intent (NOI) for the Noncontact Cooling Water General Permit 1. General facility information. Please provide the following information about the facility. a) Name of facility: Sinclair Manufacturing Company Type of Business: Manufacturer of Electronic Components **Facility Location Address:** 12 So. Worcester Street Facility Mailing Address (if not location address) Facility SIC Chartley, MA 02712 codes: P.O. Box 398 longitude: 41° 57! 01" N Chartley, MA 02712 3679 latitude: 71° 13' 36"W 3451 b) Name of facility owner: Sinclair Manufacturing Company Email address of owner: dlemieux@sinclairmfg.com Owner's Tel #: 508-222-7440 Owner is (check one): 1. Federal 2. State 3. Tribal Owner's Fax # 508-226-0517 4. Private X 4. Other (Describe) Address of owner (if different from facility address) Same Legal name of Operator, if not owner: __same Operator Contact Name: <u>David M. LeMieux</u> Operator Tel Number: 508-222-7440 Fax Number: 508-226-0517 Operator's email: dlemieux@sinclairmfg.com Operator Address (if different from owner) same d) Attach topographic map indicating the locations of the facility and the receiving water; all NCCW discharge points; upstream and e) Check Yes or No for the following: 1. Has a prior NPDES permit been granted for the discharge? Yes X No If Yes, Permit Number: MAG250030 2. Is the discharge a "new discharge" as defined by 40 CFR Section 122.22? Yes____ 3. Is the facility covered by an individual NPDES permit? Yes No X If Yes, Permit Number 4. Is there a pending application on file with EPA for this discharge? Yes _____ No _X ___ If Yes, date of submittal:

. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed)
a) Name of receiving water into which discharge will occur: Chartley Brook
State Water Quality Classification: Class B Freshwater: X Marine Water:
b) Describe the discharge activities for which the owner/applicant is seeking coverage: Non-contact cooling water
c) FOR MASSACHUSETTS FACILITIES ONLY: Engineering Calculations: Submit the completed engineering calculation of the surface water temperature rise as shown in Attachment A of the General Permit. Check if attached: X
d) Number of outfalls 1
For each outfall:
e) What is the maximum daily and average monthly flow of the discharge? Note that EPA will use the flow reported here as the facility's permitted effluent flow limit. Max Daily Flow 8700 GPD Average Flow 8545 GPD
f) What is the maximum daily and average monthly temperature of the discharge (in degrees F)? Max Temp. 83 Average Temp. 79.5
g) What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH
h) FOR MASSACHUSETTS FACILITIES ONLY: Is the source water of the NCCW potable water? Yes X No If Yes, EPA will calculate the Total Residual Chlorine limit for facilities located in Massachusetts.
i) Is the discharge continuous? Yes X No If no, is the discharge periodic (P) (occurs regularly, i.e., monthly or seasonally, but is not continuous all year) or intermittent (I) (occurs sometimes but not regularly) or both (B) ———————————————————————————————————
j) Latitude and longitude of each discharge within 100 feet: outfall 1: long. \(\sqrt{1}\) lat. \(\sqrt{2}\); outfall 2: long. \(\) lat. \(\); outfall 3: long. \(\) lat. \(\); (See \(\text{http://www.epa.gov/tri/report/siting tool)}
k) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water cfs Please attach any calculation sheets used to support stream flow and dilution calculations. See General Permit Attachment B for equations and additional information.
IASSACHUSETTS FACILITIES: See Part 3.4 and Appendix 1 of the General Permit for more information on ACEC.
reas of Critical Environmental Concern (ACEC): Does the discharge occur in an ACEC? Yes No _X
f yes, provide the name of the ACEC:

3. NCCW Source Water Information. Please provide information	about the NCCW source water, using separate sheets as necessary:
a) Indicate source of the NCCW (i.e., municipal water supply,	b) If source water is surface water: N/A
private well, surface water withdrawal, groundwater):	i) Is it a freshwater river or stream Yes No
Source: Municipal Water supply	ii) Is it a lake? reservoir?
Name of Source Water: Town of Norton	iii) Is it tidal river? estuary? ocean?
Is the source registered/permitted under MA Water Management Act or NHDES Water User Registration Rule (Env Wq 2202)?	c) Is the source water groundwater? Yes No _X If yes, see Appendix 8 and submit effluent and surface water test results, as required in Part 5.4 of the General Permit.
YesNo	d) Does the facility use both a primary and backup source of noncontact cooling water?
	Yes No X
If yes, registration number:	If yes, attach information that identifies and explains the primary and backup sources of noncontact cooling water for and how often the backup supply was used in last three years.
4. Best Technology Available for CWIS	
are you subject to BTA requirements at Part 4.2 of the General Peri noncontact cooling water from surface source water). Yes	nit? (Facility's discharge is covered by this General Permit and the facility withdraws
noncomfact cooling water from surface source water). Tes	No_X If No, explain: Town water supply
	art 4.3 of the General Permit. For additional information and guidance, see Questions 13- les/nccwgp.html. Provide a map showing the location of each CWIS intake structure; ription.
Include in your description: N/A	
	requirements, including documentation that describes the facility's monitoring program
for impinged fish and/or invertebrate; or the required alterna	
Control of Transport Control of the	pitat in the vicinity of each CWIS during the seasons when the CWIS may be in use
The attributes of the current CWIS	
Design measures of the CWIS	
Operation measures of the CWIS	
Historical occurrence of impinged fish for the past five years	
If applicable, a demonstration that the facility's intake rate is	
Other components to reduce impingement and/or entrainmen	nt of aquatic life

4. BTA FOR CWIS CONTINUED:
Provide the following information for each CWIS to support your attached facility-specific BTA description. N/A Design capacity of the of the CWISMGD Maximum monthly average intake of the CWIS during the previous five yearsMGD Month in which this flow occurredMaximum through-screen design intake velocityfeet/second (fps)
For facilities where the CWIS is located on a freshwater river or stream, provide the following information: The source water's annual mean flow cubic feet/second (cfs) as available from USGS or other appropriate source The design intake flow as a % of the source water's annual mean flow Attach calculations if equal to or less than 5% of annual mean flow. The source water's 7Q10 cfs. See Attachment B of the General Permit for more information on 7Q10 determinations. The design intake flow as a percent of the source water's 7Q10 cfs.
5. Contaminant Information N/A
If applicable, attach a listing of all non-toxic pH neutralization and/or dechlorination chemicals used, including chemical name and manufacturer; maximum and average daily quantity used as well as the maximum and average daily expected concentrations (mg/l) in the NCCW discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC50 in percent for aquatic organism(s)).
6. Determination of Endangered Species Act Eligibility: Provide documentation of ESA eligibility as required at Part 3.4 and Appendix 2, Part C, Step 4, of the General Permit. In addition, respond to the following questions.
a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? YesNo_X_b) Has any consultation with the federal services been completed? YesNo_X_c) Is consultation underway? YesNo_X_c d) What were the results of the consultation with the U.S. Fish and Wildlife Service and/or NOAA Fisheries Service (check one): N/A
a "no jeopardy" opinion or written concurrence on a finding that the discharges are not likely to adversely affect any endangered species or
e) Which of the five eligibility criteria listed in Appendix 2, Section B (A,B,C,D or E) have you met?A
f) Attach a copy of the most current federal listing of endangered and threatened species from the USF&W web site listed in Appendices 2, 2.1 and 4
7. Documentation of National Historic Preservation Act requirements: Please respond to the following questions: a) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility site or in proximity to the discharge? Yes No _X
b) Have any State or Tribal historic preservation officers been consulted in this determination? Yes or No X If yes, attach the results of the consultation(s).
c) Which of the three National Historic Preservation Act requirements listed in Appendix 3, Section C (1,2 o3) have you met?

- 8. Supplemental Information: Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit
- 9. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22 (see below) including the following certification:

I certify under penalty of law that (1) no biocides or other chemical additives except for those used for pH adjustment and/or dechlorination are used in the noncontact cooling water (NCCW) system; (2) the discharge consists solely of NCCW (to reduce temperature) and authorized pH adjustment and/or dechlorination chemicals; (3) the discharge does not come in contact with any raw materials, intermediate product, water product (other than heat) or finished product; (4) if the discharge of noncontact cooling water subsequently mixes with other wastewater (i.e.stormwater) prior to discharging to the receiving water, any monitoring provided under this permit will be only for noncontact cooling water; (5) where applicable, the facility has complied with the requirements of this permit specific to the Endangered Species Act and National Historic Preservation Act; and (6) this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility Name:

Sinclair Manufacturing Company

Operator signature:

Title:

President

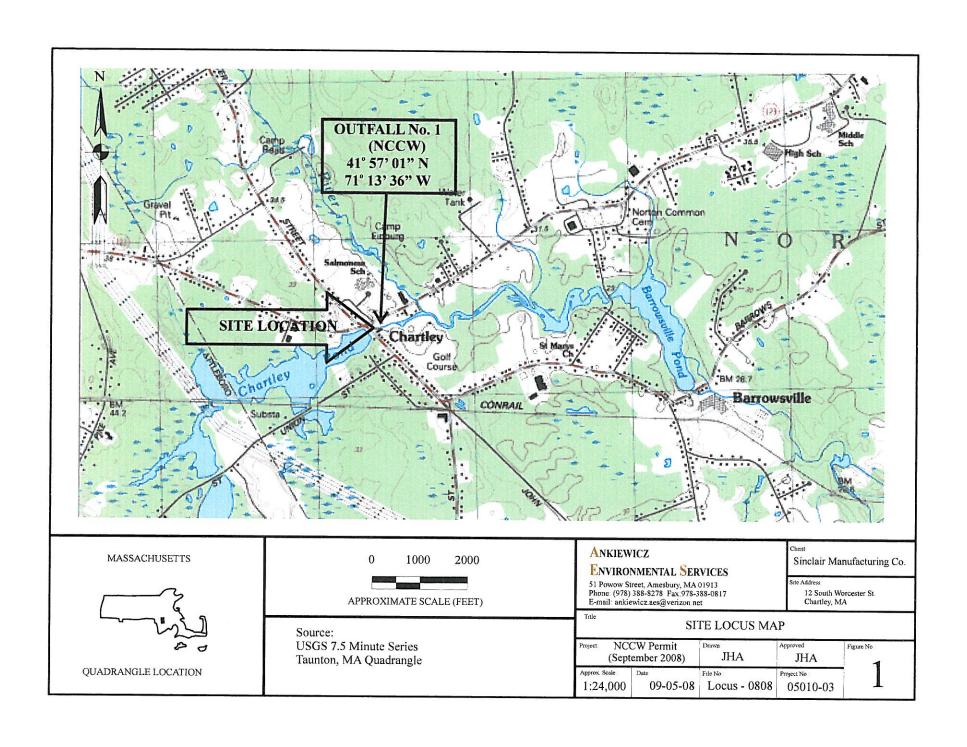
Date: 9/18/0

Federal regulations require this application to be signed as follows:

1. For a corporation, by a principal executive officer of at least the level of vice president;

2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,

3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.



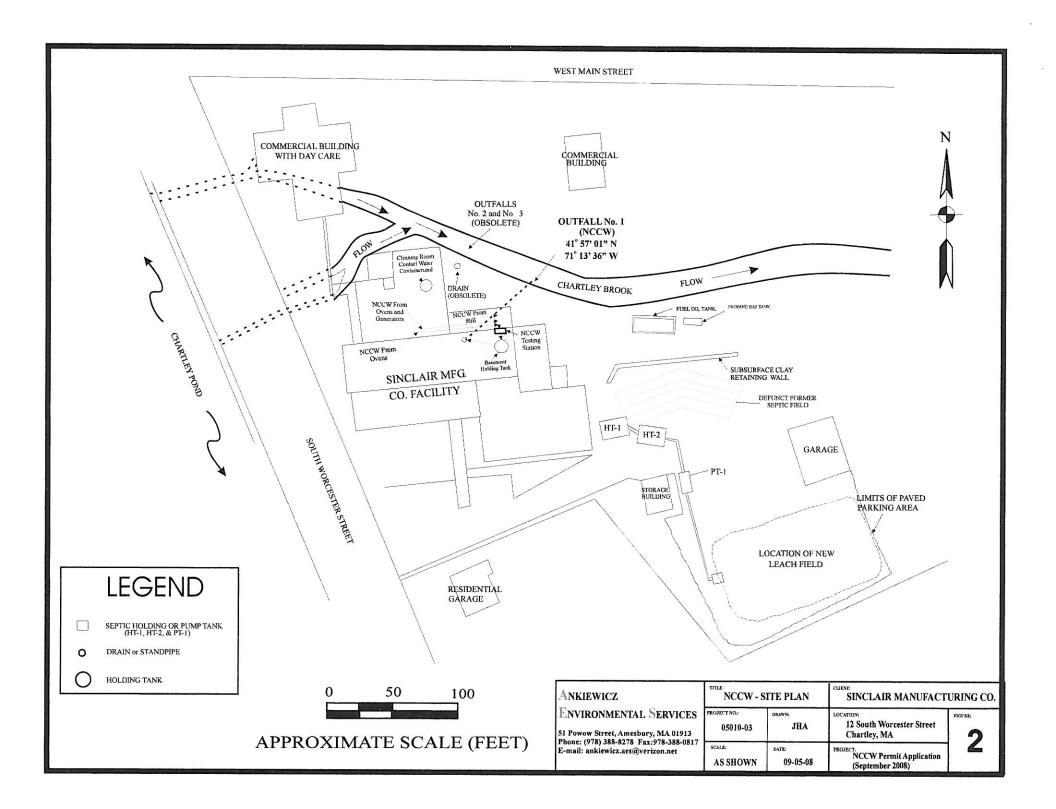


Table 1

Receiving Water Temperatures Engineering Calculations

and

Calculated Dilution Factor

Sinclair Manufacturing, 12 South Worcester Street, Chartley, MA

NPDES Permit Number MAG250030

(September 2008)

Criteria	Units	Symbol	Value	Source
Effluent Temp.	degrees F	Tp	79.5	Avg. effluent temperature based on the last 24-monhts of monitoring data
Chartley Brook Min. Temp.	degrees F	Tb	40	Estimated winter months minimum temperature per MassDEP discussions
delta Tp	degrees F	delta Tp	39.5	delta Tp = Tp - Tb
Mass of River	mgpd	mr	0.08	7Q10 per MassDEP
Mass of Effluent (avg)	mgpd	mp	0.00845	Avg. daily NCCW effluent flow based on 39 months of monitoring data.
Mass of Effluent (max)	mgpd	mp:max	0.0087	Avg. daily NCCW effluent flow based on 39 months of monitoring data.
Potential Change in Chartley Brook Temp.	degrees F	delta Tr	4.2	delta Tr = mp/mr x delta Tp
Dilution Factor	n/a	DF	10.2	DF = (mr + mp:max)/mp:max

Table 2

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN MASSACHUSETTS

Only Plymouth County has federally-designated Critical Habitat in Massachusetts. The following are federally-listed species by county:

Common Name	Species	Status	County/General Distribution		
Shortnose sturgeon ¹	Acipenser brevirostrum	E	Atlantic coastal waters and Connecticut and Merrimack Rivers		
Eastern cougar	Felis concolor couguar	Е	Entire state/historic		
Indiana bat	Myotis sodalis	Е	Berkshire/historic		
Bald eagle	de D^2 Fr.		Barnstable, Berkshire, Essex, Franklin, Hampden, Hampshire, Plymouth, Worcester		
Piping plover	Charadrius melodus	Т	Nesting: Barnstable, Essex, Plymouth, Dukes, Nantucket, Bristol (coastal beaches only) Migratory: Atlantic Coast		
Roseate tern	Sterna dougallii dougallii	E	Nesting: Barnstable, Plymouth, Dukes (coastal islands) Migratory: Atlantic Coast		
Bog turtle	Clemmys muhlenbergii	Т	Berkshire		
Dwarf wedgemussel Alasmidonta heterodon		Е	Hampshire, Franklin (Connecticut River watershed)		
Puritan tiger beetle	Cicindela puritana	Т	Hampshire (Connecticut River floodplain)		
Northeastern beach tiger beetle	Cicindela dorsalis dorsalis	Т	Barnstable, Duke (coastal beaches only)		
American burying beetle	merican burying beetle Nicrophorus americanus E		Dukes, Nantucket (Penikese & Nantucket Isl.) reintroduced populations		
Small whorled pogonia	Isotria medeoloides	Т	Hampshire, Essex, Hampden, Worcester, Middlesex		
Sandplain gerardia	Agalinus acuta	Е	Barnstable, Duke		
Northeastern bulrush Scirpus ancistrochaetus		Е	Franklin		

¹ Principal responsibility for this species is vested with the National Marine Fisheries Service.
² Delisted. Protected under the Bald and Golden Eagle Protection Act and the Migratory Bird Treaty Act.

ANKIEWICZ **ENVIRONMENTAL SERVICES**

Table 3

Index by State and City, page 1, time 09/17/2008 13:20:45

Page 1 of 1

Index by State and City

National Register Information System

09/17/2008 13:20:45

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No fi	lter					Include filt	er in navigation
Row	STATE	COUNTY	RESOURCE NAME	ADDRESS	CITY	LISTED	MULTIPLE
1	MA	Bristol	Clarke, Pitt, House	42 Mansfield Ave.	Norton	1976-07-13	
2	MA	Bristol	Norton Center Historic District	MA 123	Norton	1977-12-23	
3	MA	Bristol	Old Bay Road	From Easton Town Line to Taunton Town Line	Norton	1974-11-08	

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